GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Ref: QECD/BBMP/YNK/PMC/2019-20/02

Date: 22/8/2019.

To,
The Executive Engineer,
Yelahanka Division,
Yelahanka Zone,
Bangalore-560064.

From,
Qualiex Civil Design & Consultancy,
#42, 18th Cross, Sri Rampura Main Road,
Jakkur, Amruthahalli,
Bangalore-560064.

PMC CERTIFICATE

Sub: Certifying the 1st and Final for the Work of **" Providing LED Street Lights in Ward No-02 of Yelahanaka Sub Division".**

With Respect to above subject, this is bring to your kind information that we have scrutinized the 1st & Final Bill submitted by **" Sri S. Somashekar",** Contractor, No: 15/44/01, Allalsandra, Yelahanka, Bangalore towards the above work. The work has been completed satisfactorily.

Sl No	Discription Work	Unit	Quantity	Amount in Rs.
1	1. LED street supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with injection molded & is made of polycarbonate material with high transmission index delivering superior light output . Rated life burning Hrs 50000hr @ Lumen Maintenance of 70% CCT > 5500K, IP 66 optical and electrical compatible & impact resistance of complete luminare > IK08 ,Power Factor > 0.9 with mains current should not be greater than 0.1A to 0.7A & Surge Protection . Min 4KV along with over voltage /overload , short circuit / miswiring protection . Compatible for pole mounting with outer dia of 10mm to 50mm. Universal voltage driver to operate wide voltage range from 100V to 270V 50/60HZ application .			

Adress: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

	Over load & short circuit protection ensure reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598 , LM 79 & LM 80 Adherence with RoHS .UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with .....W System power consumption. LED Efficiency >130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABUICPRI & any Government certified agency & Design & Development facility certified by ISO 9001.2008 Housing with supplier word mark /name shall be Engraved/ Embossing on the di e cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part 1 & Part II LED Streetlight 65watts	Each	117.00	2466210.24
2	2. Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts and nuts and Wiring using Suitable capacity wires complete. Using 32mm dia GI pipe	Each	117.00	117645.84
3	3. Wiring for lighting/power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire Single core cable in open or concealed system of wiring as per IS-694 :19904sq mm	Per Mtr	396.00	3346.20
4	4. Fixing halogen/ metal halide /SVL/IL/LED flood light fittings over existing pole/ wall ceiling including clamps bolts nuts and wiring using suitable capacity wires	Nos	47.00	9314.46
5	5. Supply and Installation / Fixing/ Provision of Pole box with HRC Fuse/ MCB provision and suitable connector terminal for 3 Ph/1 Ph connections with Loop-In & Loop -Out terminals for 10 Sqmm /25 Sqmm 3.5 C Al/ArCu/Ar Cable and branch out 25 Sqmm 2 core Al/CU PVC Insulated cable, enclosed in a Thermoplastic Polystyrene enclosure, which should be shock proof safe , IP65(Weather Proof), rust proof, dust proof, waterproof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic , Polyamide glands and/or grommets 200mmx200mmx98mm	Nos	15.00	36786.45

6	6. Supplying and fixing Molded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws , bolts , nuts and wiring complete Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu =Ics) THREE POLE 1200Amps 25Ka.	Nos	15.00	68303.10
7	7. Supplying and fixing angle iron frame work fabricated out of M S angle icon . And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a) 40X40X6mm	Mts	10.00	2961.40
8	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminum Phase conductor and Stranded Messenger conductor with all aluminum alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS-14255:1995 & confirming to GTP of group A. 2X 16+ 1 X 25 SQ.MM		148.00	15331.32
9	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR		148.00	1716.80
10	Open Conduit System Supplying heavy gauge PVC Condit pipe....., dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc. and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c)32mm dia 2 5mm thick	Per Mtr	60.00	6756.00
11	Supplying and stinging of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel)	Per Mtr	1972.00	66614.16
12	1.1 KV Pin Insulator	Each	44.00	2179.76
13	No 8 Strain Insulator	Each	30.00	472.80
14	2 Pin 45x45x5mm-510mm	Each	44.00	15160.64
	Total Amount			**2812799.17**

Thanking You,

Yours Faithfully

For Qualiex Civil Design & Consultancy

QUALIEX CIVIL DESIGN & CONSULTANCY

Authorized Signature